

APPROVED	O G. F. G.
BY	CLASS SUBCLASS
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#4

# Plasmid pCMV .Bx08.gp160

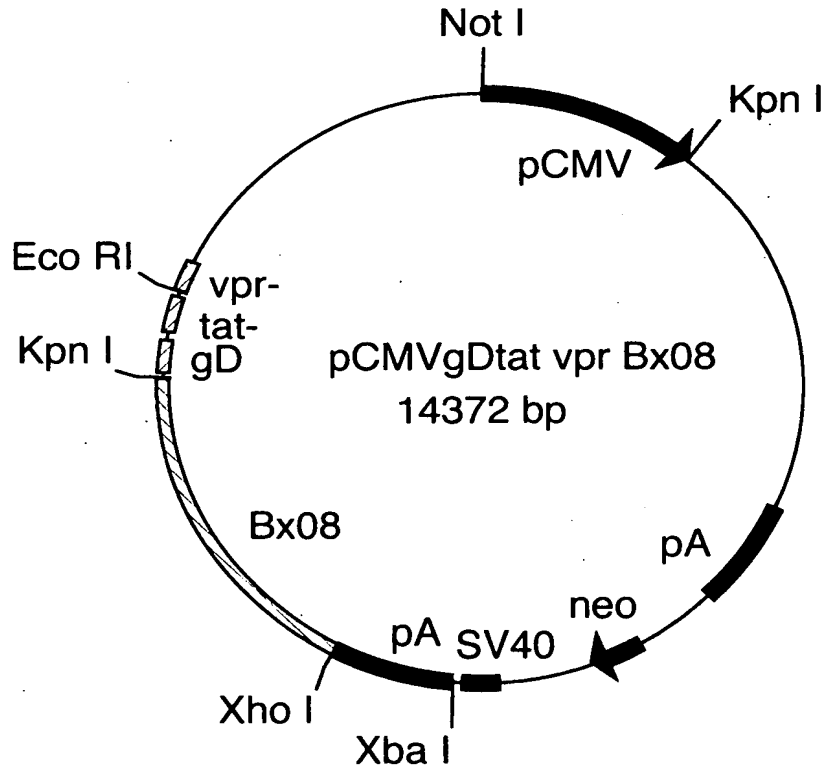


FIG.1

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DNA immunization plasmid pCMV3Bx08.

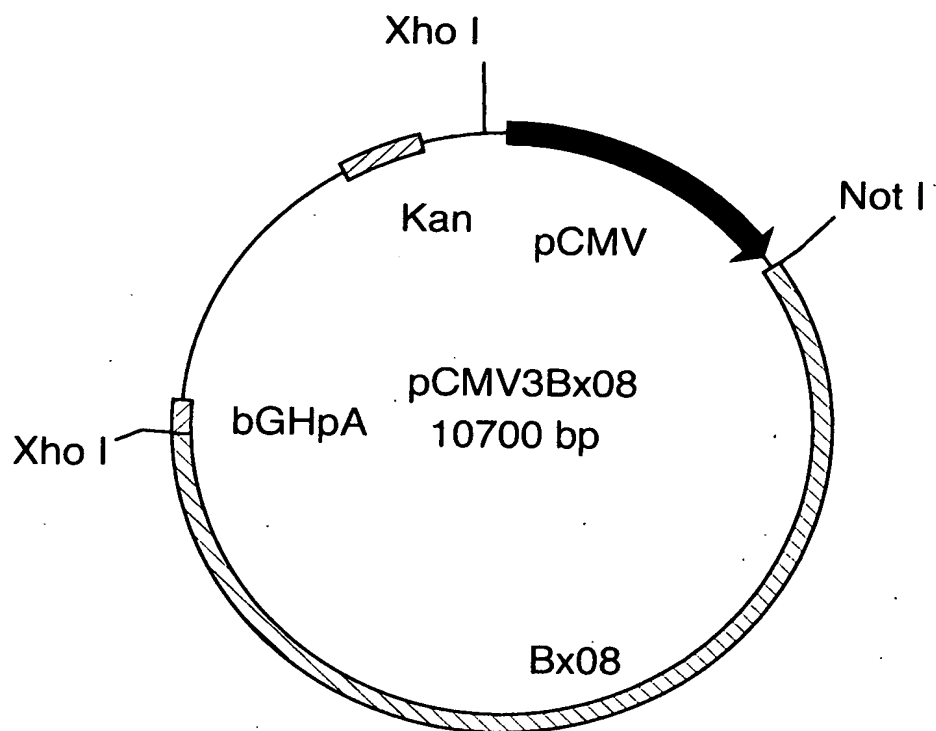


FIG.2

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# Pseudovirion Expression Plasmid p133B1 HIV-1 Bx08

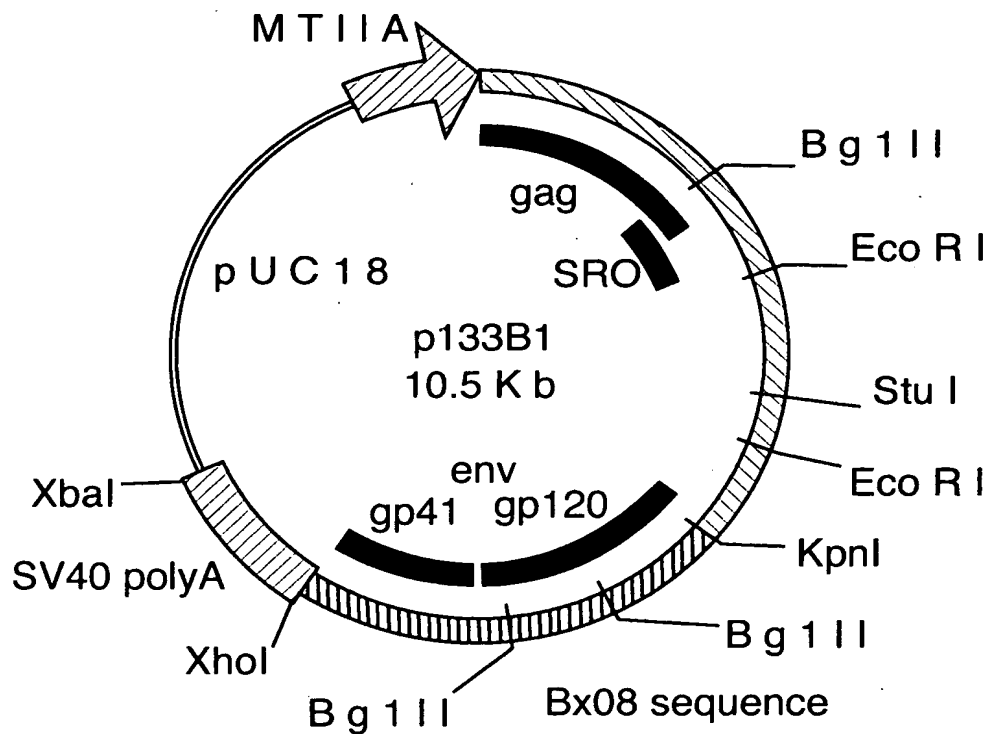


FIG.3



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ALVAC(2)120(BX08)GNP  
(vCP1579)  
(ALVAC XhoI Restriction Map)

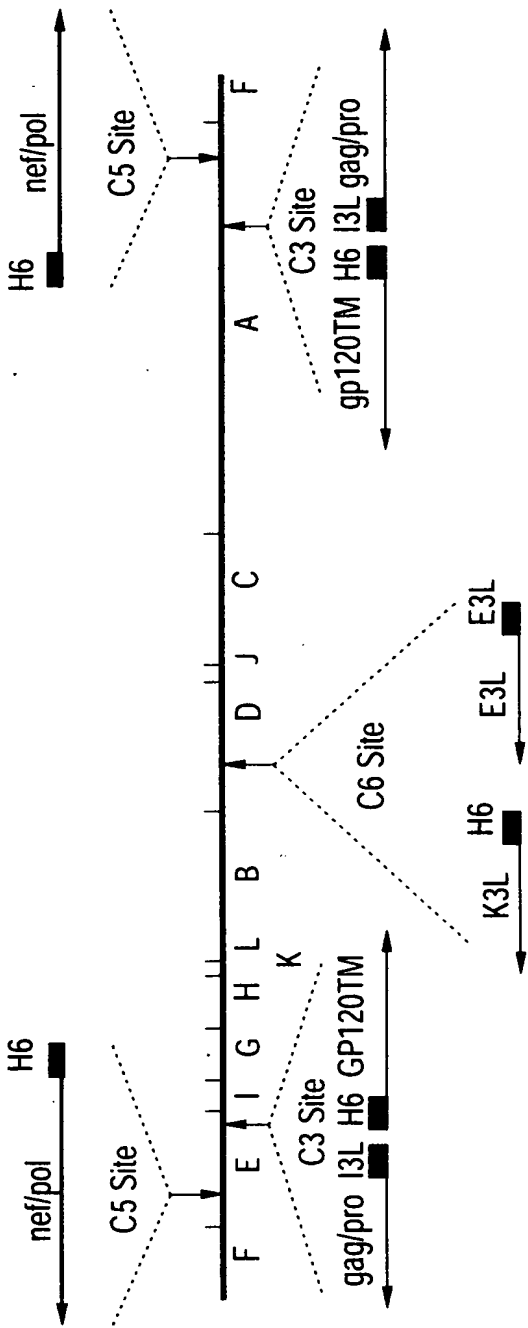


FIG.4



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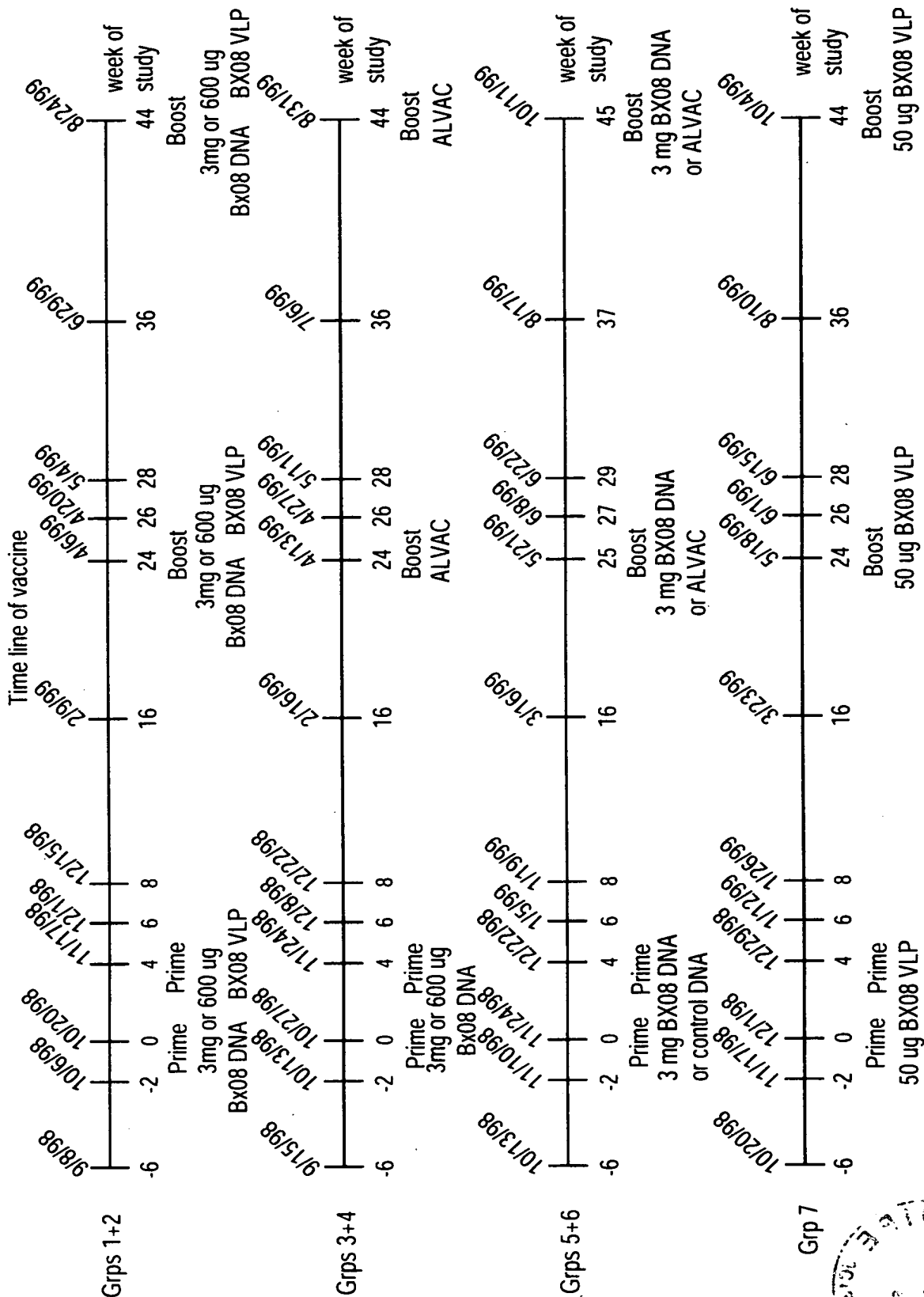


FIG.5A



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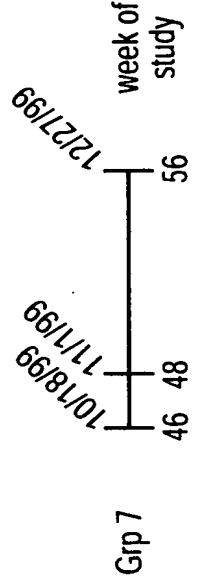
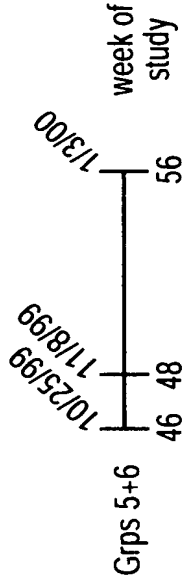
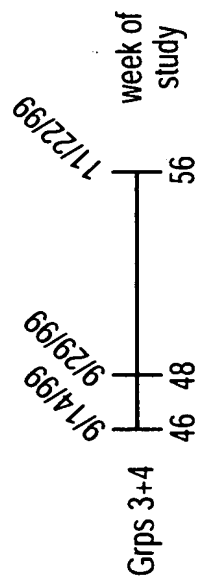
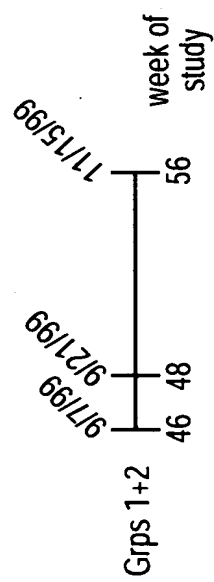


FIG.5B



26 wk macaque serum immunoreactivity to HIV antigens (1:100 diln)

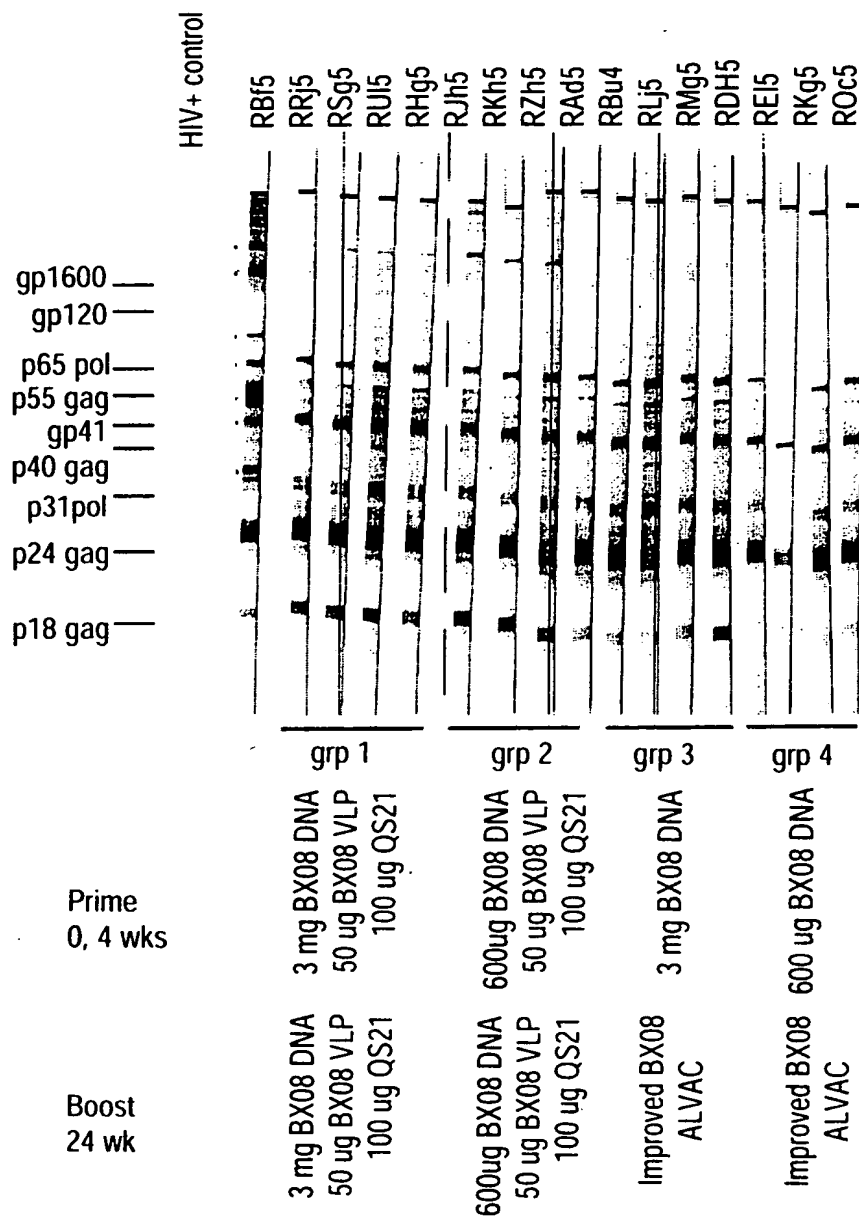


FIG.6A



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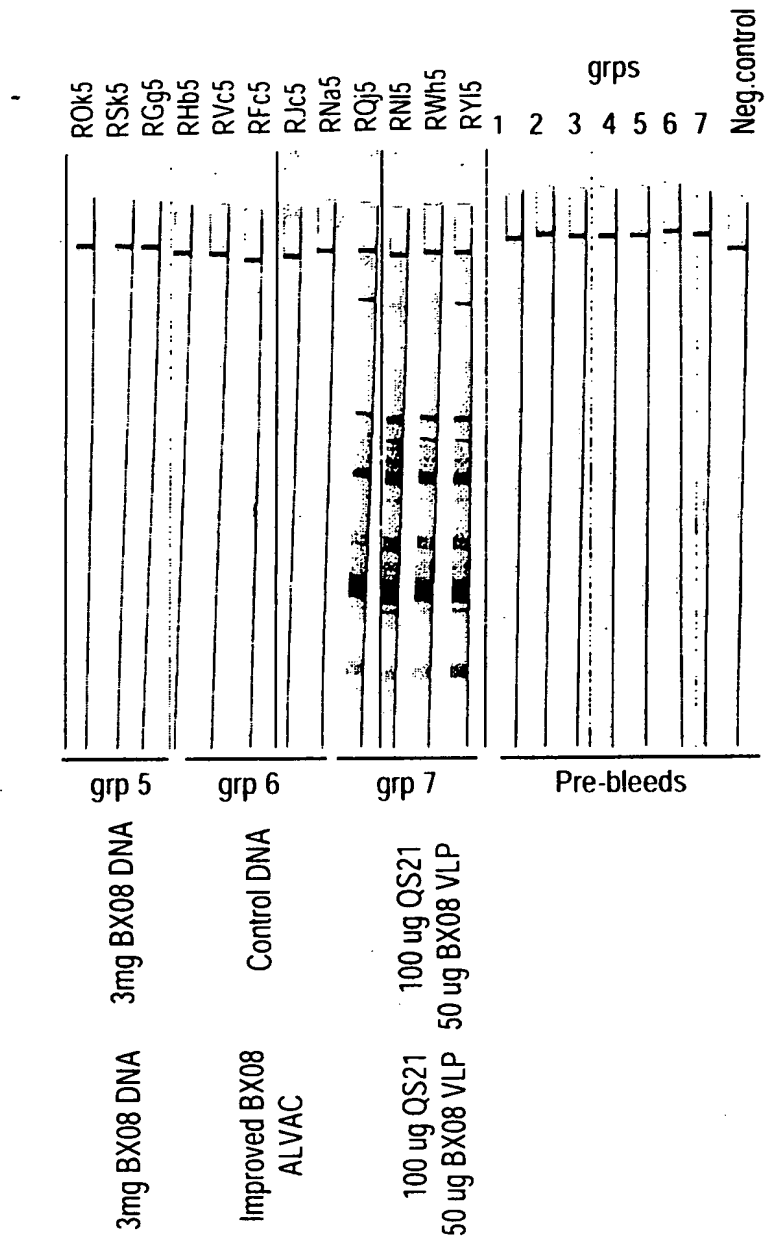


FIG.6B





26 wk macaque serum immunoreactivity to HIV antigens (1:1000 diln)

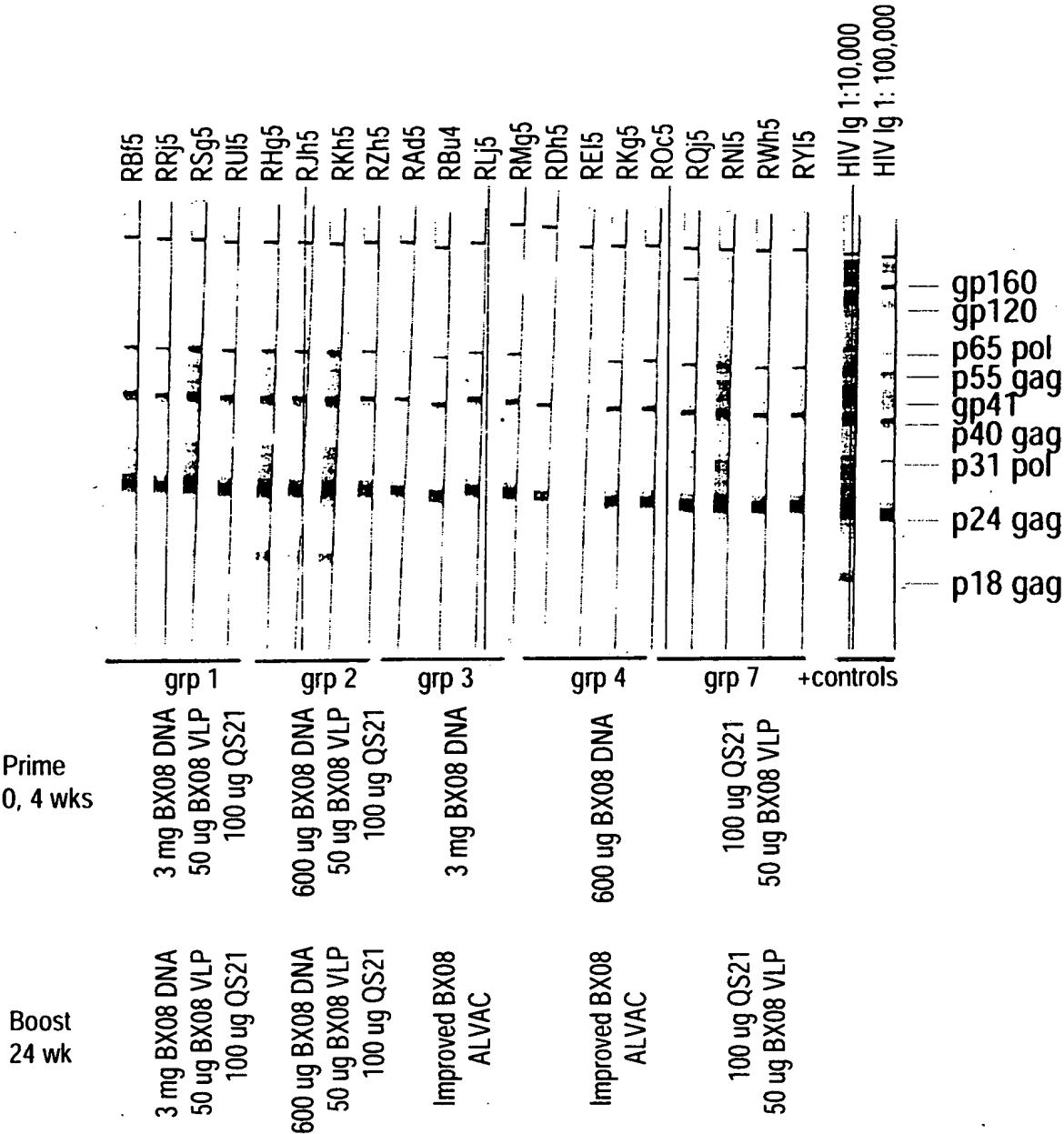
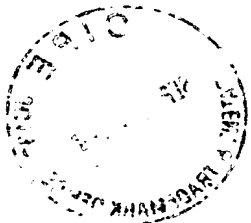


FIG.7



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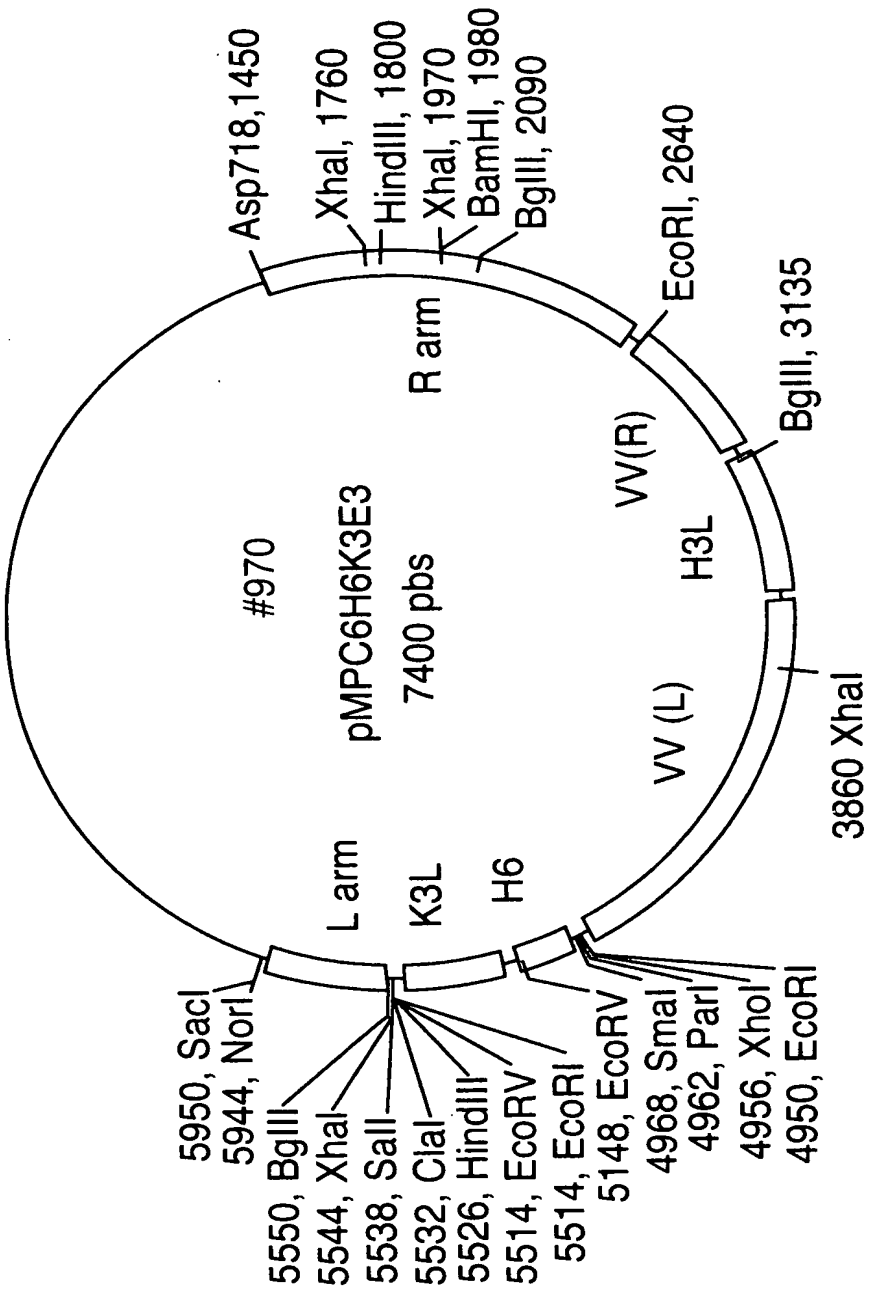


FIG.8



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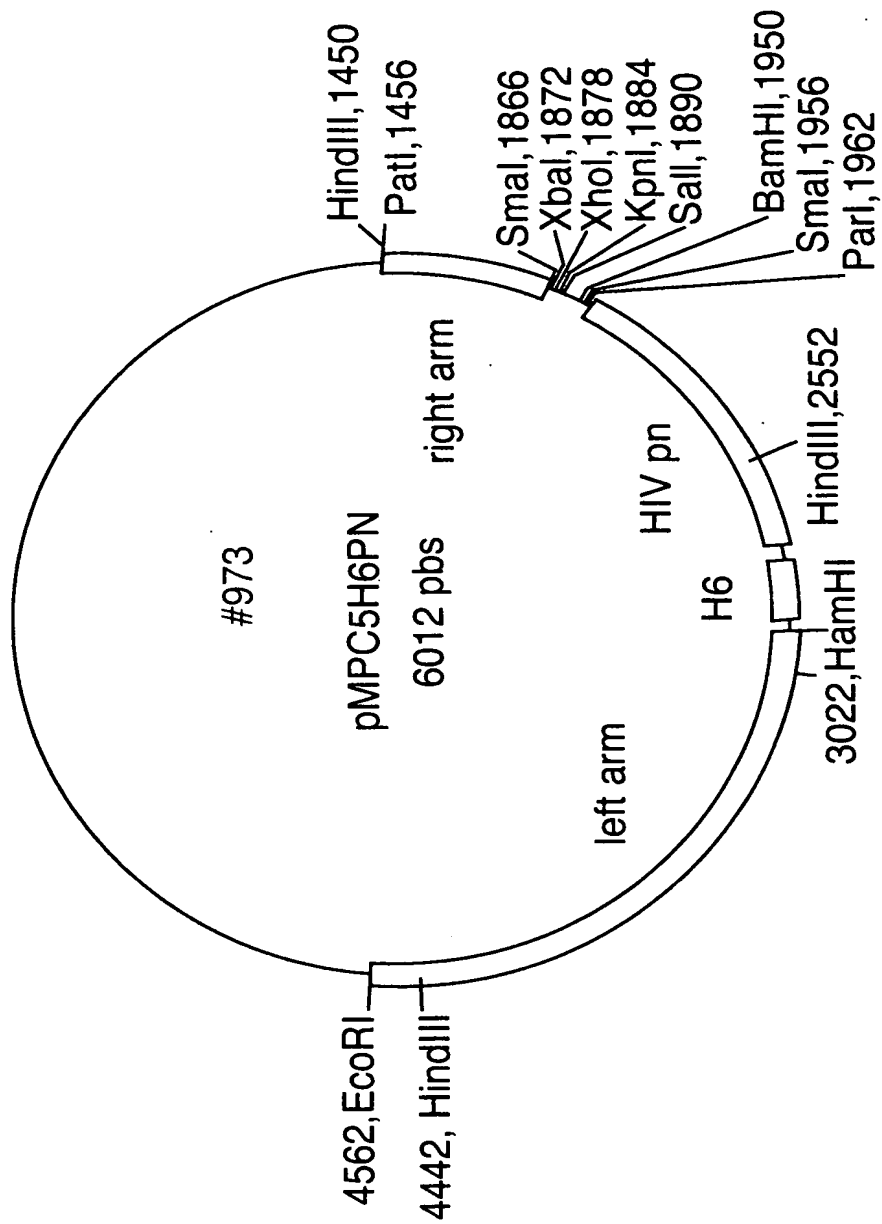


FIG.9

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Plasmid pHIV76

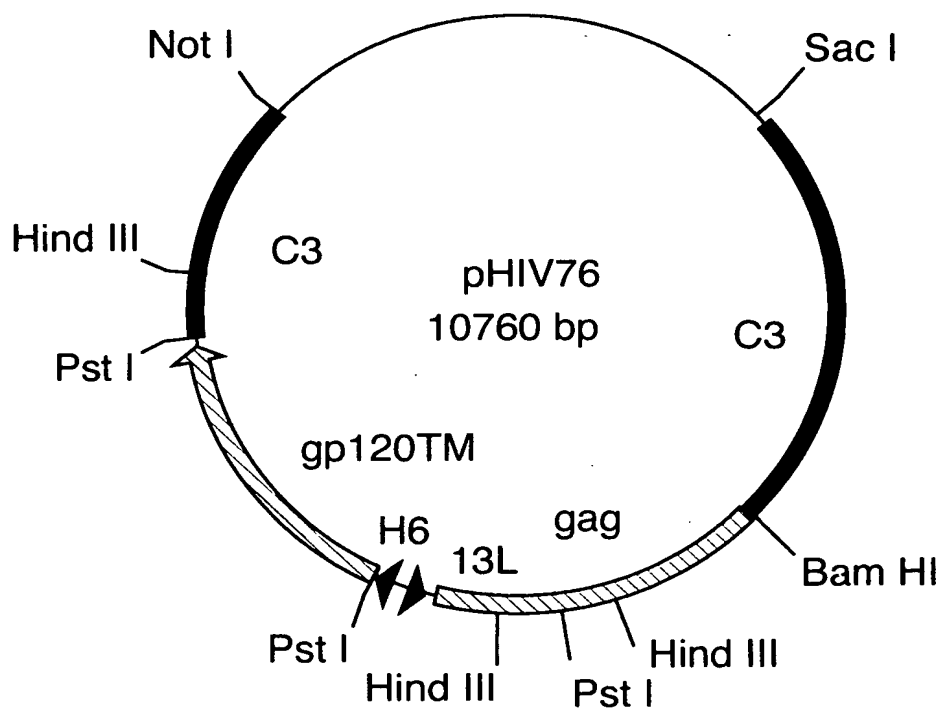


FIG.10



# FIG.11A

vCP1579: H6/HIV Pol/Nef epitope cassette in ALVAC C5 site

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1  TTTTTHTCAT TATTTAGAAA TTATCCATTT TAGATCTTTA TAAGCGGCGG TGATTAACTA
61  GTCNTAAAAA CCGCGCATCG ATTCTAGACT CGAGCGTACC GCATCTTTAT TAATTAGICA
121 TCAGGCCAGG CGAGAACGAG ACTATCIGCT CGTTAATFAA TTAGGTCGAC GGATCCCCCA
181 ACAAAAACTA ATCAGCTATC GCGGTTAATT AATTAGTTTAT TAGACAAGGT GAAAAACGAA
241 CTATTTGTFAG CTTAATTTAAT TAGAGCTHCT TTATTTCTATA CTTAAAAAGT GAAAAATAAAT
301 ACAAAAGGTHC TTGAGGGTHG TGTAAATTTG AAAGCGAGAA ATPATCATPA ATTATTTCAT
361 TATOGCGATA TOCGTTAAGT TTGTATOGTA ATGOCACTPA CAGAAGAAGC AGAGCTAGAA
421 CTGGCAGAAA ACAGAGAGAT TCTAAAAGAA CCAGTACATG GAGTGTATTA TGACCCATCA
481 AAAGACTTAA TAGCAGAAAT ACAGAAGCAG GGGCAAGGC AATGGACATA TCAAATTTAT
541 CAAGAGOCAT TTAAAAATCT GAAAACAGGA ATGGAGTGGG GATTTGATTC TAGATTAGCA
601 TTTTCATCAG TAGCTAGAGA ATTACATCCT GAATATTTTA AAAATTGTTAT GGCAATATTC
661 CAAAGTAGCA TGACAAAAAT CTTAGAGCCT TTTFAGAAAAC AAAATCCAGA CATAGTTTATC
721 TATCAANTACA TGGATGATTT GTATGTAGGA TCCTGACTTAG AAATAGCGCA GCATAGAACCA
781 AAAANTAGAG AGCTCAGACA ACATCTGTHG AGGTCGGGAC TTACAACCCAT GGTAGGTTTTT
841 CCAGTAAACAC CTAAGTACC TTTAAGACCA ATGACTTTACA AAGCAGCTGT AGATCTHCT
901 CACTTTTFAA AAGAAAAAGG AGGTTAGAA GCGCTAATTC ATTCTCAAG AAGACAAGAT
961 ATTCTTGATTT TGIGGATTTA TCATACACAA CGATATTHTC CTGATTCGCA GAATTACACA
1021 CCAGGAOCAG GAGTCAGATA OCCATTAAOC TTTHGTHGTT GCTACAAGCT AGTAOCAAAG
1081 ATTGAGACTG TACCAGTAAA ATTAAAGCCA GGAATGGAAG GOCCAAAAAGT TAAACAATGG
1141 CCATTGACAG AAGAAAAAAT AAAAGCATTA GTAGAAAATTT GTACAGAGAT GGAAAAAGAA
1201 GGGAAAAATTT CAAAAATTGG GOCITTAATTT TTCTGCAGCC CGGGGGATCC TTTTTATAGC

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## FIG.11B

1261 TAATTAGTCA GGTACCTTIG AGAGTAACAC TTACGCTAAC TCTTTTIGTGT CTCAGAGTAA  
 1321 CTTTCITTAA TCAATTCOA AACAG

Upstream (right) flanking sequence: 1-266

W H6 promoter: 267-390

HIV pol/nef/pol/nef/pol cassette: 391-1227

Downstream (left) flanking sequence: 1227-1345





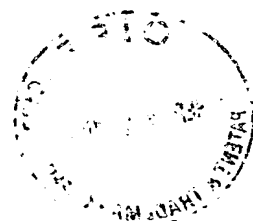
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FIG.12B

230	*	*	*	*	*	240	*	*	*	*	250	*	*	*	260	*	*	270...
AATCICACTA AAAAGATAGC CGATGTTATTT GAGAGAGATT GGACATCTAA...																		
TTAGAGTGAT TTTTCTATG GCTACATAAA CTCCTCTCTAA CCCTGAGATT...																		
...	...	...	...	...	...	280	*	*	*	*	290	*	*	*	300	*	*	33
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

340	*	*	*	*	*	350	*	*	*	*	360	*	*	*	370	*	*	380...
ATTTPACATA AGTACAAATAA AAAGTATATAA ATAAAAAATAC TTACTTTAAGA...																		
TAAATTGAT TCATGTTATT TTTCATAAATT TATTTTATG AATGAATGCT...																		
...	...	...	...	...	...	390	*	*	*	*	400	*	*	*	410	*	*	440
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





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FIG.12C

450	460	470	480	...
* * *	* * *	* * *	* * *	...
TGATATOGAA TTCATAAAAA TT A TTG ATG TCT ACA CAT OCT TTT...				
ACTATAGCTT AAGTATTTTT AA T AAC TAC AGA TGT GTA GGA AAA...				
<Q H R C M R K ...				
...				
...	490	500	510	520
...	* * *	* * *	* * *	* * *
...	GTA ATT GAC ATC TAT ATA TOC TTT TGT ATA ATC AAC TCT AAT CAC TTT			
...	CAT TAA CTG TAG ATA TAT AGG AAA ACA TAT TAG TTG AGA TTA GIG AAA			
...	Y N V D I Y G K T Y D V R I V K			
...	...k3L...			
540	550	560	570	...
* * *	* * *	* * *	* * *	...
AAC TTT TAC AGT TTT OCC TAC CAG TTT ATC OCT ATA TTC AAC...				
TTG AAA ATG TCA AAA GGG ATG GTC AAA TAG GGA TAT AAG TTG...				
<V K V T K G V L K D R Y E V ...				
...				









FIG.12G

1150      1160      1170      1180      1190...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 CTATATAAGT AGTGAATAA TTCACTGATTT TCGATATATG TTCCAACICT...  
 GATATATATCA TCACATTAAT AAGTACATAA AGCTATATATC AAGGTTGAGA...  
 ...      1200      1210      1220      1230      1240      1250  
 ...      \*      \*      \*      \*      \*      \*      \*  
 ...      GICITFIGICA TGICIFAGITT CGTAATATICT ATAGCATICT CAAAAATAT ATTOGCATAT  
 ...      CAGAAACACT ACAGATCAAA GCATTATAGA TTATGTTAGGA GTTTTTTATA TAAGCGTATA

1260      1270      1280      1290      1300...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 ATTOCCAAGT CTTCAGITCT ATCTTCTAAA AAATCTTCAA CGTATGGAAT...  
 TAAGGGITCA GAAGICAAGA TAGAAGATTT TTTAGAAAGTT GCATACCTTA...  
 ...      1310      1320      1330      1340      1350      1360  
 ...      \*      \*      \*      \*      \*      \*      \*  
 ...      ATAAATAATICT ATTTTACCTC TTCTGATATC ATTAATGATA TAGTTTTTGA CACTATCTTC  
 ...      TATTATATAGA TAAATGCGAG AAGACTATAG TAAATTACTAT ATCAAAAACT GIGATAGAAG

1370      1380      1390      1400      1410...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 TIGICAATATCA CTATATCTPAA GAAAGCGATA GGGTCCCTAG...  
 ACAGTTAACT AAGAATAAGT GATATAGATT CTTTGGCTAT CGCAGGGATC...



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FIG.12H

...	1420	1430	1440	1450	1460	1470
...	*	*	*	*	*	*
...	GACGAACATAC	TGCCATTAAAT	ATCTCTATTA	TAGCTTCICGG	ACATAATICA	TCTATTATAC
...	CTGCTTGATG	AOGGPAATTA	TACAGATAAT	ATCGAAGAAC	TGTATTAAAT	ACATAATATG

1480	1490	1500	1510	1520...
*	*	*	*	*
CAGAATTAAAT	GGGAACATATT	COGATCTAT	CTAACATAGT	TTTAAAGAAAG...
GICITTAATTA	COCTTGATTA	GGCATAGATA	GATTGATCA	AAATCTTTC...

...	1530	1540	1550	1560	1570	1580
...	*	*	*	*	*	*
...	TCAGAATCTA	AGAOCIGATG	TTTATATATT	GGTTCATACA	TGAAATGATC	TCTATTGATG
...	AGICTTAGAT	TCTGGACTAC	AAGTATATPA	CCAAGTATGT	ACTTTACTAG	ACATAACTAC

1590	1600	1610	1620	1630...
*	*	*	*	*
ATAGTGACTA	TTTCATCTC	TGAAAATIGG	TAACTCATTC	TATATATGCT...
TATACATGAT	AAAGPAAGAG	ACTTTTAAOC	ATTGAGTAA	ATATATAOGA...

...	1640	1650	1660	1670	1680	1690
...	*	*	*	*	*	*
...	TTCTTGTTG	ATGAAGGATA	GAATATATAC	AATAGAATTT	GTACCAACAA	ACTGTTCTCT
...	AAGGAACAAC	TACTTCTTAT	CTTATATGAG	TTAICTTTAA	CATGGTGTGT	TGACAAGAGA



FIG.12I

1700	1710	1720	1730	1740...
* * *	* * *	* * *	* * *	* * *
TATGAATCGT ATATCATCAT CIGAAATAAT CATGPAAGC ATACATTFAA...				
ATACITAGCA TATAGTAGTA GACTTTATTA GTACATTOG TAUGTAAAIT...				
...	1750	1760	1770	1780
...	* * *	* * *	* * *	* * *
...	CAATTACAGA CTIGICTOCT GTTATCAATA TACTATICTT GICATAATTT ATIGIGTAGG			
...	GTTAATCICT GAACAGAGCA CAATAGTTAT ATGATAAGAA CACTATTFAA TACACACTOC			

1810	1820	1830	1840	1850...
* * *	* * *	* * *	* * *	* * *
CAAATTIGIC CAAGTICTTT AATTTTGTTA TAGTAGATAT CAAATOCAT...				
GTTTAAACAG GIGCAAGAAA TTAAACAAT ATCACTATA GTTTAGGTTA...				
...	1860	1870	1880	1890
...	* * *	* * *	* * *	* * *
...	GGAGCTACAG TTCTTGGCTT AAACAGATAT AGTTTTCTIG GAACAAATTC TACAACATTTA			
...	CCTCGATGIC AAGAAOOGAA TTTIGICTATA TCAAAAAGAC CTGTGTTAAG ATGTTGTAAT			

1920	1930	1940	1950	1960...
* * *	* * *	* * *	* * *	* * *
TTTATAAGCA CTTTGGGTAG ATAAGTGGCA TGAATTOCTA TTTTAATTAA...				
AATATTIOCT GAAACCCATC TATTCACCOCT ACTTAGGAT AAAATTAAIT...				

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FIG.12J

...	1970	1980	1990	2000	2010	2020
...	*	*	*	*	*	*
...	TGCTATOGCA TTGTCCTCGT GCAATATOC AAACGCTTTT GIGATAGTAT GGCATTCATT					
...	ACGATAGCGT AACAGGAGCA CGTTTATAGG TTIGOGAAAA CACTATCATA CGTAAAGTAA					

2030	2040	2050	2060	2070...
*	*	*	*	*
GICTAGAAAC GCCTACGAA TATCIGTGAC AGATATCATC TTTAGAGAAT...				
CAGATCTTTG OGAGATGCTT ATAGACACIG TCTATAGTAG AAATCTCTTA...				
...	2080	2090	2100	2110
...	*	*	*	*
...	ATACTAGTACG OGTTAATAGT ACTACAATTT GTAATTTTTTA ATCTATCTCA ATAAAAAAT			
...	TAATGATCAGC GCAATATCA TGATGTTAAA CATAAAAAAT TAGATAGAGT TATTTTTTTA			

2140	2150	2160	2170	2180...
*	*	*	*	*
TAATATGAT	GATTCATG	ATAACTAAAC	TACTAATCTG	TATTCATAAC...
ATTATACATA	CTAAGTTACA	TATTCATTTG	ATGATTCACA	ATAACTATTC...
...	...	...	...	...



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**FIG. 12K**

2190	2200	2210	2220	2230
.....				
* * *	* * *	* * *	* * *	* * *
TACAAATCA	GAA TCT AAT GAT GAC GTA AOC AAG AAG TTT ATC TAC TGC CAA			
.....				
ATCTTAGT	CTT ACA TTA CTA CTG CAT TGG TTC TTC AAA TAG ATG ACG GTT			
.....				
<F	R I I V Y G L L K D V A L			
.....				
-----E3L-----				

	2240	2250	2260	2270	2280...
*	*	*	*	*	*
TTT	AGC	TGC	ATT	ATG	ATC
AAA	TGG	ACC	TAA	AAA	AGG
<K	A	A	N	K	S
					D
					A
					K
					...

.....	2290	2300	2310	2320
.....	*	*	*	*
.....	ATC GAA TAC TCT TOC GTC GAT GTC TAC ACA GGC ATA AAA TGT			
.....	TAG CTT ATG ACA AGG CAG CTA CAG ATG TGT OCG TAT TTT ACA			
.....	D F V R G D I D V C A Y F T			

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FIG.12L

2330            2340            2350            2360            2370            ...  
 \*            \*            \*            \*            \*            \*  
 AGG AGA GTT ACT AGG OCC AAC TGA TTC AAT ACG AAA AGA OCA ATC TCT...  
 TOC TCT CAA TGA TOC GGG TTG ACT AAG TTA TGC TTT TCT GGT TAG AGA...  
 <P S N S P G V S E I R F S W D R ...

... 2380            2390            2400            2410            \*  
 ...            \*            \*            \*            \*  
 ... CTT AGT TAT TTG GCA GTA CTC ATT AAT AAT GGT GAC AGG GTT  
 ... GAA TCA ATA AAC CGT CAT GAG TAA TTA TTA OCA CTG TOC CAA  
 ... K T I Q C Y E N I I T V P N  
 ... ~~E3L~~

2420            2430            2440            2450            2460...  
 \*            \*            \*            \*            \*  
 AGC ATC TTT OCA ATC AAT AAT TTT AGC OGG AAT AAC ATC ATC AAA...  
 TOG TAG AAA GGT TAG TTA TTA AAA AAA TOG GCC TTA TTG TAG TAG TTT...  
 <A D K W D I I K K A P I V D D F ...

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FIG.12M

```

...      2470      2480      2490      2500
...      *      *      *      *
... AGA CTT ATG ATC CTC TCT CAT TGA TTT TTC GCG GGA TAC ATC
... TCT GAA TAC TAG GAG AGA GFA ACT AAA AAG GCG OCT ATG TAG
... S K H D E R M S K E R S V D
...-----E3L-----

```

```

2510      2520      2530      2540      2550...
*      *      *      *      *
ATC TAT TAT GAC GTC AGC CAT AGC ATC AGC ATC CCG CTT ATC GCG CTC...
TAG ATA ATA CTG CAG TOG GTA TOG TAG TOG TAG GCG GAA TAG GCG GAG...
<D I I V D A M A D A D P K D A E ...
-----

```

```

...      2560      2570      2580      2590
...      *      *      *      *
... OGT TGT CAT AAA OCA ACG AGG AGG AAT ATC GTC GGA GCT GTA
... GCA ACA GTA TTT GGT TGC TOC TOC TTA TAG CAG OCT CGA CAT
... T T M F W R P P I D D S S Y
...-----E3L-----

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FIG.12N

2600	2610	2620	2630	2640...
* * *	* * *	* * *	* * *	* * *
CAC CAT AGC ACT ACG TTG AAG ATC GFA CAG AGC TTT ATT AAC TTC TOG...				
GIG GFA TOG TGA TGC AAC TTC TAG CAT GTC TOG AAA TAA TTG AAG AGC...				
<V M A S R Q L D Y L A K N V E R ...				
<hr/>				
...	2650	2660	2670	2680
...	* * *	* * *	* * *	* * *
... CTT CTC CAT ATT AAG TIG TCT AGT TAG TIG TGC AGC AGT AGC				
... GAA GAG GFA TAA TTC AAC ACA TCA ATC AAC ACG TOG TCA TOG				
... K E M N L Q R T L Q A T A				
...-----E3L				
2690	2700	2710	2720	2730...
* * *	* * *	* * *	* * *	* * *
TOC TTC GAT TOC AAT GTT TTT AAT AGC CGC ACA CAC AAT CTC TGC GTC...				
AGG AAG CTA AGG TTA CAA AAA TTA TOG GCG TGT GTC TTA GAG ACG CAG...				
<G E I G I N K I A A C V I E A D ...				
<hr/>				
...	2740	2750	2760	2770
...	* * *	* * *	* * *	* * *
... AGA ACG CTC GTC AAT ATA GAT CTT AGA CAT TT TTAGAGAGAA				
... TCT TGC GAG CAG TTA TAT CTA GAA TCT GTA AA AATCTCTT				
... S R E D I Y I K S M				
...-----E3L				



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FIG. 12P

3000	3010	3020	3030	3040...
* *	* *	* *	* *	* *
TGCICTAAAT	TGGGAGGCT	TAAAGIGTIG	TTTGCAATCT	CTACAAGGCT...
AACAGATTTA	AACCTOOGA	ATTTCACAAC	AAAAGTTAGA	GATGIGCGCA...
...	3050	3060	3070	3080
...	* *	* *	* *	* *
...	GTCTAACTAG	TGGAGGTTCG	TCAGCTGGTC	TAGTTTGAAT
...	CAGATTGATC	AACCTCAAGC	AGTCGACGAG	ATCAAAACTTA
...				GTAGTAGCGG
				CATCATTAAG

3110	3120	3130	3140	3150...
* *	* *	* *	* *	* *
TACTTTTACA	GTTAGGACAC	GGTGTATGTT	ATTCTCTGTC	GAGAAAGTTA...
ATGAAAATGT	CAATCTCTGIG	CCACATTAACA	TAAAGAGCAG	CTCTTGCAAT...
...	3160	3170	3180	3190
...	* *	* *	* *	* *
...	AAATAATGTT	TGTAACCTAC	ATCCTTTTAT	TTATCTATAT
...	TTTATTTAGCA	ACATTGAGIG	TAGGAATAAA	AATAGATATA
...				ACATAAGATG
				ACGAAAGAAT

3220	3230	3240	3250	3260...
* *	* *	* *	* *	* *
ATGCATTTTA	TACCGAATPAA	GAGATPAGOGA	AGGAATCTCT	TTTATTTGAT...
TACGTAAAT	ATGGCTTTAT	CTCTATCTGCT	TOCTTAAGAA	AAATAACTTAA...

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FIG.12Q

```

...      3270      3280      3290      3300      3310      3320
...      *      *      *      *      *      *
...      AACTAGTCAA ATGAGTATAT ATAATIGAAA AAGTAAAAATA TAAATCATAT AATAATGAAA
...      TTGATCAGIT TACICATATA TATTAACITTT TTTCAITTTTAT ATTATAGTATA TTATTTACITTT

```

```

3330      3340      3350      3360      3370...
*      *      *      *      *      *
CGAAATATCA GTAATAGACA GGAACIGGCA GATTCITCITTT CTAATGAAGT...
GCITTTATAGT CATTATCIGT OCTTGAOOGT CTAAGAAGAA GATTACTTCA...
...      3380      3390      3400
...      *      *      *      *      *
...      AAGTACTGCT AAATCTCCAA AATTAGATAA AAATGATACA GCAATATACAG CTTCATTCAA
...      TTCAATGAOGA TTTAGAGGITT TTAATCTATT TTTACTATGTT OGTTTATGTC GAAGTAAAGITT

```

```

3440      3450      3460      3470      3480...
*      *      *      *      *      *
CGAATTACCT TTTAATTTTT TCAGACACAC CTTAATTACAA ACTAACTAAG...
GCITTAATGCA AAATTAAAAA AGICIGIGIG GAATAATGITT TGATTCATTC...
...      3490      3500      3510      3520      3530      3540
...      *      *      *      *      *      *
...      TCAGATGATG AGAAAGTAAA TATAAATTTTA ACTTATCGGT ATAATATAAT AAAGATTTCAT
...      AGICITACTAC TCITTCATTTT ATATTTTAAAT TGAATAOCCA TATTATATTA TTICTAAGTA

```

FIG.12R

```

3550      3560      3570      3580      3590...
*   *   *   *   *   *   *   *   *   *
GATATTAAATA ATTACTTAA CGATGTTAAT AGACTTATTC CATCAACCCC...
CTATAATTAAT TAAATGAATT GCTACAATTA TCTGAATAAG GTAGTTGGGG...
...      3600      3610      3620      3630      3640      3650
...      *   *   *   *   *   *   *   *   *   *
... TTCAAAACCTT TCTGGATTAAT ATAAAATACC AGTTAATGAT ATTAAAATAG ATTGTTTAAG
... AAGTTTGGAA AGAOCCTATAA TATTTTATGG TCAATTACTA TAAATTTTATC TAACAAATTC

```

```

3660      3670      3680      3690      3700...
*   *   *   *   *   *   *   *   *   *
AGATGTAAAT AATTATTGG AGGTAAAGGA TATAAAATTA GTCATCTTT...
TCTACATTTA TTAATAAACC TCCATTTTCT ATATTTTAAAT CAGATPAGAAA...
...      3710      3720      3730      3740      3750      3760
...      *   *   *   *   *   *   *   *   *   *
... CACATGGAAA TCAATTAOCT AATATTAAATA ATTATGATAG GAATTTTTTA GGATTTTACAG
... GGTACCTTTT ACTTAATGGA TTATAATTAAT TAATTAATATC CTTAAAAAAT CCTAAATGTC

```

```

3770      3780      3790      3800      3810...
*   *   *   *   *   *   *   *   *   *
CIGTTATATG TATCAACAAT ACAGGCAGAT CTATGGTTAT GGTAAAAACAC...
GACAATATAC ATAGTTTGTG TGTCGGTCTA GATACCAATA CCATTTTGTG...

```



FIG.12S

...	3820	3830	3840	3850	3860	3870
...	*	*	*	*	*	*
...	TGTTAAGGGA AGCAGCATTC TATGGTAACT GGCTATGTT TAATAGCCAG ATCATTTTAC					
...	ACATTGCOCT TGTGCTAAG ATAACCATICA CCGGATACAA ATTATCGGTC TAGTAAAAATG					
3880	3890	3900	3910	3920...		
*	*	*	*	*	*	*
TCTATAAACA TTTTACACA AATAATAGGA TOCTCTAGAT ATTAAATATT...						
AGATATTTGT AAAATGGTGT TTATTATOCT AGGAGATICTA TAAATTATATA...						
...	3930	3940	3950	3960	3970	3980
...	*	*	*	*	*	*
...	ATATCTAACA ACAACAAAAA AATTTAACGA TGTATGGCCA GAAGTATTTT CTACTAATAA					
...	TATAGATTGT TGTGTTTTT TTAAATTGCT ACATAOCCGT CTTCATAAAA GATGATTTATT					
3990	4000	4010	4020	4030...		
*	*	*	*	*	*	*
AGATAAAGAT AGTCTATCTT ATCTACAAGA TATGAAAGAA GATAATCATT...						
TCTATTICTA TCAGATAGAA TAGAUGTICT ATACTTICTT CTATTTAGTAA...						
...	4040	4050	4060	4070	4080	4090
...	*	*	*	*	*	*
...	TAGTAGTAGC TACTAATATG GAAAGAAATG TATACAAAAA OGIGGAAGCT TTTTATATTAA					
...	ATCATCATOG ATGATTATATC CTTCCTTTAC ATATGTTTTT GCACCTTGA AAATATTAATT					

APPROVED	O. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG.12T

4100      4110      4120      4130      4140...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 ATAGCATATT ACTAGAAGAT TTAAAATCTA GACTTAGTAT AACAAAACAG...  
 TATOGTATPA TATCTCTCTA AATTTTAGAT CIGAATCAT TIGTTTTGIC...  
 ...      4150      4160      4170      4180      4190      4200  
 ...      \*      \*      \*      \*      \*      \*      \*  
 ...      TTAAATGCCA ATATCGATTTC TATATTTCAT CATAACAGTA GTACATTAAAT CAGTCAATATA  
 ...      AATTTAAGGT TATAGCTAAG ATATAAAGTA GTATTGICAT CAIGTAATTA GTCACTATAT

4210      4220      4230      4240      4250...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 CTGAAAGCAT CTACAGCTC AACATAGCAA GGAATAAGCA ATATGCCAAT...  
 GACTTTGCCA GATGCTGAG TTGATAAGTT CCTATTTCGT TATAAGGTTA...  
 ...      4260      4270      4280      4290      4300      4310  
 ...      \*      \*      \*      \*      \*      \*      \*  
 ...      TATGCTAAT ATTTTAACIT TAGAACTAAA ACGTCTTACC AATACTAAA ATAGGATAAG  
 ...      ATACAGATTA TAAAATHGAA ATCTTGATTT TGCAAGATGG TTATGATTTT TATCTTATGC

4320      4330      4340      4350      4360...  
 \*      \*      \*      \*      \*      \*      \*      \*      \*  
 TGATAGGCTG TTAAAAGCTG CAATAAATAG TAAGGATGTA GAAGAATAC...  
 ACTATCGAC AATTTCGAC GTATTATATC ATTCTACAT CTCTTTATG...

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG.12U

```

...      4370      4380      4390      4400      4410      4420
...      *      *      *      *      *      *
...      TTGTGTTCTAT ACCITGGAG GAAAGAACIT TAGAACAACCT TAAGTTTAAAT CAAACTTGTA
...      AAACAAGATA TCGAAGCCIC CTTTCTTGAA ATCTTGTTGA ATTCAAATTA GTTTCACAT

```

```

4430
*      *
TTTATGAAGG TAAC
AAATACTTCC ATGG

```